SeNCit and SeNCit+
Installation & User Guide

Installation guide V1.1

SeNCit Firmware V06.05.10

If you have any question please visit www.sen-cit.co.uk or call 01628 638557.
Thank you for using **SeNCit**.

Products covered in the guide:

- **SeNCit** - kit includes main sensor unit, wall mounting bracket & screws, UK Plug in power supply with 5m power lead, PC Configuration application and USB cable, UK Pay-as-you go SIM card (unregistered)
- **SeNCit+** - as above but including wireless peripherals i.e. wireless door sensor

Safety

Please read and follow these safety guidelines in order to maintain safety of the installers and users:

- SeNCit (later referred to as the SeNCit, the device or the system) has a radio transceiver operating in GSM850, GSM900, GSM1800 and GSM1900 bands.
- Don't use the system where its GSM engine may interfere with other devices and cause potential danger.
- Don't use the system in the vicinity of medical devices.
- Don't use the system in hazardous environments.
- Don't expose the system to high humidity, chemical environment or mechanical impacts.
- Don't attempt to personally repair the system. Any system repairs must be done only by qualified, safety aware personnel.

⚠	The system must be powered by power supply source which should not exceed 15VA power supply and must be approved by LTS EN6095901 standard
⚠	External power supply is for internal use only i.e. inside a building and must be plugged into a standard UK 3-pin socket. The main circuit should be protected by short circuit or over-current protection.
⚠	Mains power must be disconnected during installation of the SeNCit.
⚠	The system must be used only with approved back-up battery to avoid fire or explosion hazards. Special care must be taken connecting positive and negative battery terminals.
⚠	Electrical socket from which the system is powered must be in an easily accessible place.
⚠	The device contains a back-up battery and therefore if you need to switch the system off completely, you can do so by opening the cover and disconnecting the battery terminal.
⚠	Device is protected by a Fuse F1 type – C1S 2.5A. Blown fuse should not be replaced by the user and should be returned to the supplier for attention.
⚠	WARNING: In order to avoid fire or explosion hazards, the system must be used only with approved back-up battery. Special care must be taken when connecting positive and negative battery terminals.

The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see right) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed on in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

Limited Liability

- The buyer must agree that whilst the system will help with detection of falls, illness, temperature issues, power fail, wander and burglary, it does not guarantee detection. Buyer should also understand that it is an aid to 'care' but not a substitute for regular care visits.
- "SEND TECHNOLOGY LTD" will not take any responsibility regarding personal or property or revenue loss while using the system.
- "SEND TECHNOLOGY LTD" liability according to local laws does not exceed value of the purchased system.
- "SEND TECHNOLOGY LTD" is not affiliated with any of the cellular providers therefore is not responsible for the quality of cellular service.

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Manufacturer Warranty

- The system carries a 12-month warranty by the manufacturer.
- Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date.
- The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environment or other force majeure factors.
- The warranty is a return to base warranty.

Package Content

1. SENCIT ..... qty. 1
2. Power Supply ..... qty. 1
3. SENCIT User Manual ..... qty. 1
4. MicroUSB - USB cable ..... qty. 1
5. Configuration Software CD ..... qty. 1
6. Wireless Accessories depending on model purchased

About User Manual

- This document describes Care Monitoring Device SeNCit's installation, configuration and operation.
- It is very important to read User Manual before using the system.

Where you see this symbol you can remotely change the setting by sending a SMS text message to an installed SeNCit device. Please see the Remote SMS section at the end of this user guide.

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1.1 Operation

SeNCit is designed to be used indoors to check for regular movement patterns, monitor room temperature, power cuts, night wandering and be used as a security system. The SeNCit+ model adds wireless sensors to monitor door opening (wandering alert). All these features are optional and can be selected or de-selected at any time using the configuration software.

SeNCit units connect directly to the GSM mobile network and alerts are sent directly to carers by SMS text message if any of the above situations go outside of your pre-set parameters.

1.2 Technical Specification

Supply Voltage – via power supply	**11-15V 500 mA max**
Back-up Battery voltage, capacity	**8.4V; 150-250mAh**
Back-up Battery type	**Ni-Mh**
GSM modem frequency	**900/1800/1900Mhz**
Dimensions	**104x60x33mm**
Operating temperature range	**-10 to 40°C**
Back-up battery operating time	**6 hours (max)**
Movement Sensor Detection angle	**90°**
Maximum motion detection range	**10 metres**
SeNCit+ Radio transmitter-receiver frequency	**866.1 MHz - 869.5 MHz**
SeNCit+ Radio communication range	**30m indoors (max)**

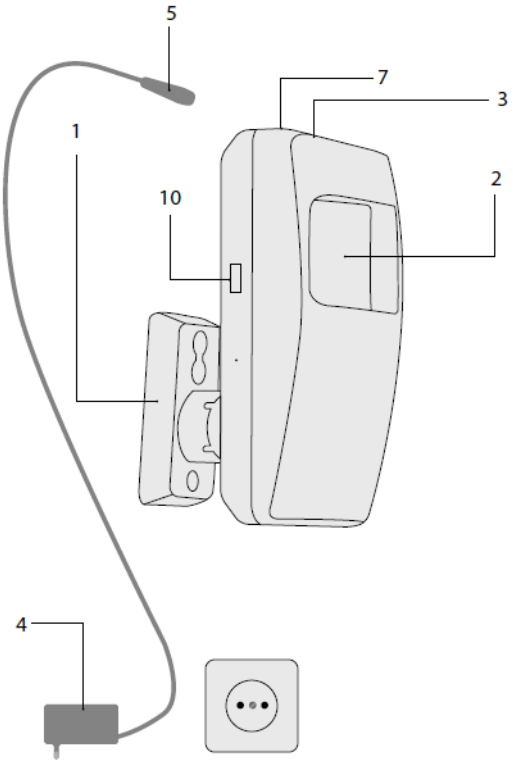


Fig 1

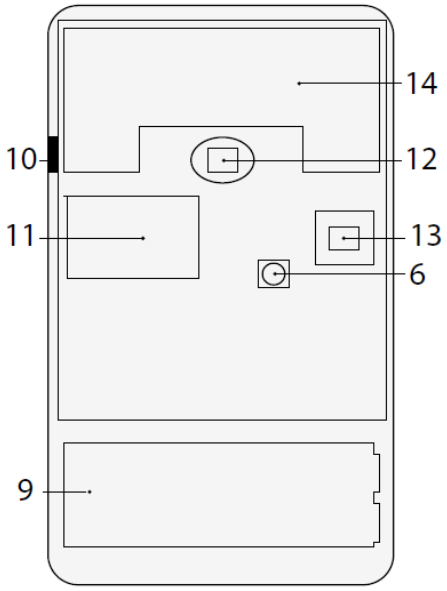
SeNCit Unit:

1. Wall mounting bracket
2. Movement sensor lens
3. Socket for power
4. UK Main power adapter
5. DC power plug
7. N/A
10. USB configuration port

Fig 2

SeNCit Unit:
Front Cover Removed

6. Reset Button
(hold for 5 seconds to reset the unit)
9. Backup battery
10. USB configuration port
11. SIM Card Receptacle
12. Movement Sensor
13. Tamper switch
14. SeNCit+ Transceiver



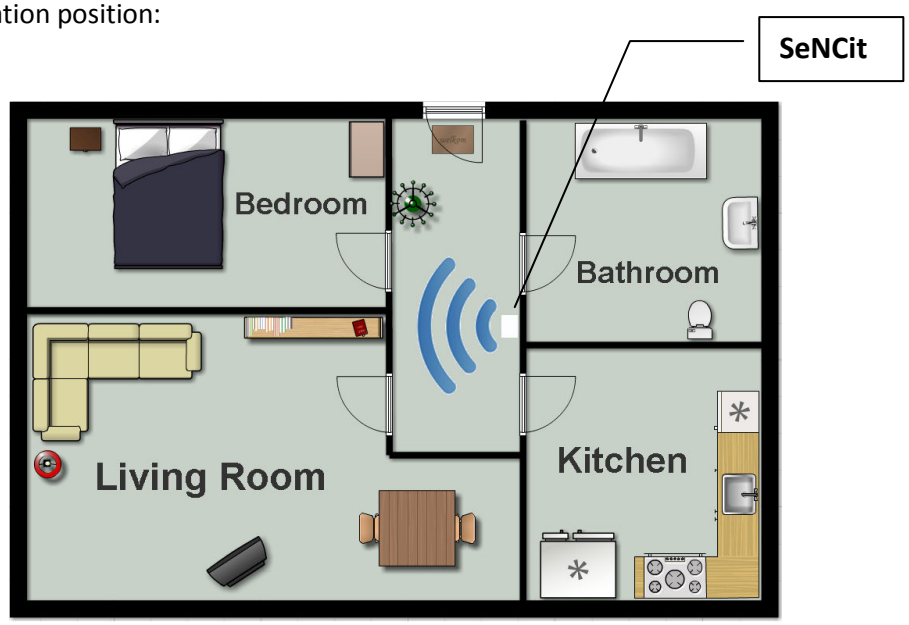
1.3 Main Functions

Movement Sensor

SeNCit's main function is to alert carers if it has not seen any movement within certain periods of the day. The SeNCit should be positioned in a location where the monitored individual has to pass by in order to go about normal daily routines (i.e. hallway or landing) – see example below. This will mean when 'no movement' is detected, there is highly likely to be a problem that needs investigation.
NB - The SeNCit does not record images or video of the person being monitored.

Example:

Typical installation position:



The SeNCit is configured using simple Windows based configuration software so that you can fine tune the system to best match different individual's lifestyle patterns and hence get the best results from the alerting system. Please see our sample questionnaire on the SeNCit website support section which will help gather accurate information from individuals being monitored. If a monitored individual is incapable of correctly answering these questions, carers or relatives should be consulted or failing this, we have some standard default settings which should cover most 'normal' lifestyles. To customise the system, you can select up to three time periods (morning, lunch and evening) to monitor movement within. Should users find the settings are not quite correct upon using the system or if individual's circumstances change, they can be adjusted at any time using the configuration software.

Morning Movement:

In the above installation (perhaps a Bungalow or flat), the SeNCit is fixed to the wall in the hallway. A typical time period might be between 6am and 10am when you would expect an individual to be rising from bed and passing through the hallway to visit the Bathroom or perhaps on their way to the kitchen to prepare a morning drink. No movement during this period would trigger the SeNCit to alert carers via a ring and/or text message at 10am asking them to check on the individual.

- **Evening Movement:**

  In the same installation, a typical evening period could be between 8pm and 11pm when you would expect an individual to be preparing for bed and passing from the living room through the hallway to make their way to the bedroom. No movement during this period would trigger the SeNCit to alert carers via a ring and/or text message at 11pm to let them know.

- **Lunchtime Movement** (for extra monitoring)

  You may expect an individual to visit the kitchen at lunchtime to get food or drink. Typically this could be between 12pm and 2pm perhaps. As per morning and evening movement periods, an alert would be sent if no movement was detected during these times.

Room Temperature Monitoring

In addition to movement monitoring, SeNCit also monitors the room temperature to check that the room is kept at a comfortable level. If the temperature falls below or rises above pre-set levels, an alert SMS message is sent. This can be automatically disabled at night as central heating is usually switched off during this period.

Power Cut Monitoring

SeNCit can monitor its main power supply and if the unit is unplugged or the main supply is cut, will send a SMS message alert. The SeNCIt will also alert when power is restored.

Night Wandering

SeNCit can monitor or check on night movement. During the night a carer (especially a live-in carer) may want to be alerted if the individual being monitored gets up and potentially puts themselves and the carer at risk. As such, SeNCit can be configured to send an alert if the movement sensor detects a person passing by the sensor during your chosen night-time period.

All OK Status Message

A regular status SMS message can be sent on a daily, weekly or monthly basis to confirm the SeNCit system is active and no alerts have been activated.

Security Mode

When not being used as a care monitor SeNCit can be switched into security mode. This is ideal when the home is left unoccupied for a period of time. To switch the SeNCit unit into security mode one of the alert message recipients just needs to call the number of the SIM card in the SeNCit – after a few rings SeNCit will terminate the call and activate security mode. This will be confirmed by a SMS message. Calling the SeNCit a second time will disable security mode and revert the SeNCit back to care mode. Make sure all door sensors are in the closed position before you set security mode.

The SeNCit+ (Plus) model offers the following additional features:-

Wandering via main doors

Wireless door sensors can be added to the SeNCit unit to detect when doors have opened. To inform the carer speedily and prevent their charge wandering too far away from the home, the SeNCit+ can be configured to "ring" a mobile or home number and send an alert SMS message to inform them of the wander alert.

Bogus Caller Alert

Wireless door sensors have a button which can be used to trigger a SMS alert message to inform of unwelcome callers to the home.

2. Set-up, Configuration and Installation

Following section will guide you through this sequence:

- Registering and activating your PAYG or Pre-Pay SIM Card (not relevant for Contract SIMs)
- Insert SIM Card in SeNCit Unit
- Install Configuration Software onto PC or Laptop
- Plug in power cable to SeNCit and plug in USB cable for programming
- Connecting to SeNCit and configuration using software.
- Installation/Mounting of SeNCit
- Testing of SeNCit

2.1 SIM Cards

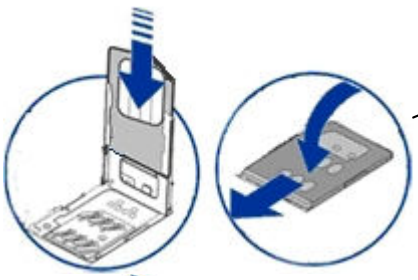
Register and add credit to your chosen SIM Card. Instruction booklets that are provided with SIM Cards on how to do this. Please refer to SeNCit website support section for latest SIM card recommendations and links to Mobile Network provider websites.

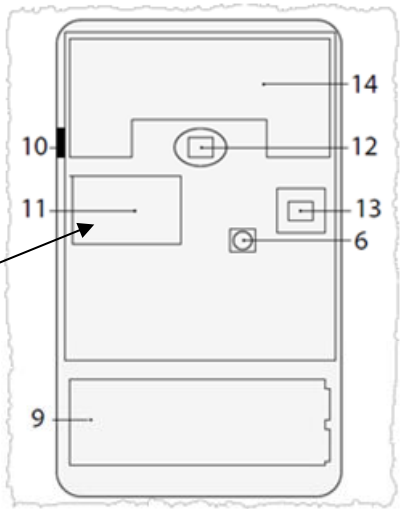
NB: It is the responsibility of the user/carers/relatives to ensure the SIM card has credit. The system will not warn of lack of credit and without credit, the system cannot send alert messages! We would always recommend the use of monthly contract SIM Cards as they do not need to be topped up.

Insert the registered, topped up SIM card into the SeNCit unit.

! Make sure unit is unplugged from mains supply !

Remove the front cover of the SeNCit unit by removing the small screw at the bottom of the unit and pulling cover off.





Open the SIM card holder by sliding in direction of Open arrow as shown above and hinging the flap upwards and to the right. Insert SIM card as shown so that gold contacts are face down when SIM Card cover is flipped back down. Slide the SIM card cover in direction of the Lock arrow as shown below to lock SIM card in place. Please visit our website www.sen-cit.co.uk for video demo of this procedure if required. Replace the front cover and screw.

Connect the power lead and plug the unit into the mains – see Fig 1 (page 5), (Power plug (5) connected at socket for power in the top of the SeNCit unit. (3))

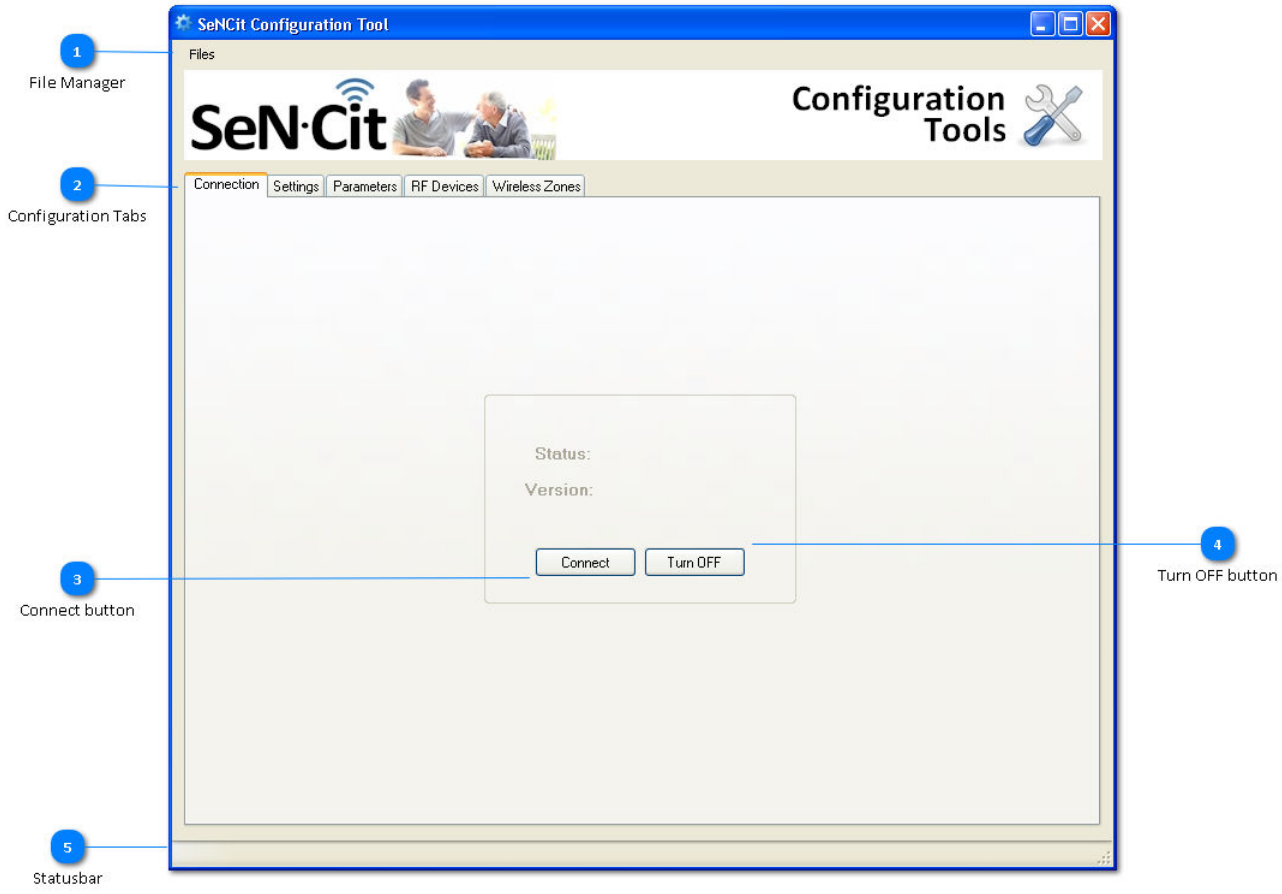
2.2 Installing and Launching the Software

To successfully launch the SeNCit Configuration software, it is necessary that Microsoft .NET Framework 3.5 is installed on your computer. Most computers have this already installed. Should you not have this installed, please see SeNCit website's support section for how to download this program or install from the CD. You will also be able to download the latest copy of the SeNCit configuration software from www.sencit.co.uk.

Your computer will also need one of the following Operating Systems:- either Win2000, XP, Vista, or Windows 7.

Insert CD into your PC's CD Drive. CD should perform an autorun routine. If not, please double-click on the SeNCit set-up icon (.exe file) and follow the installation instructions. You will be taken to Connection Screen as below:

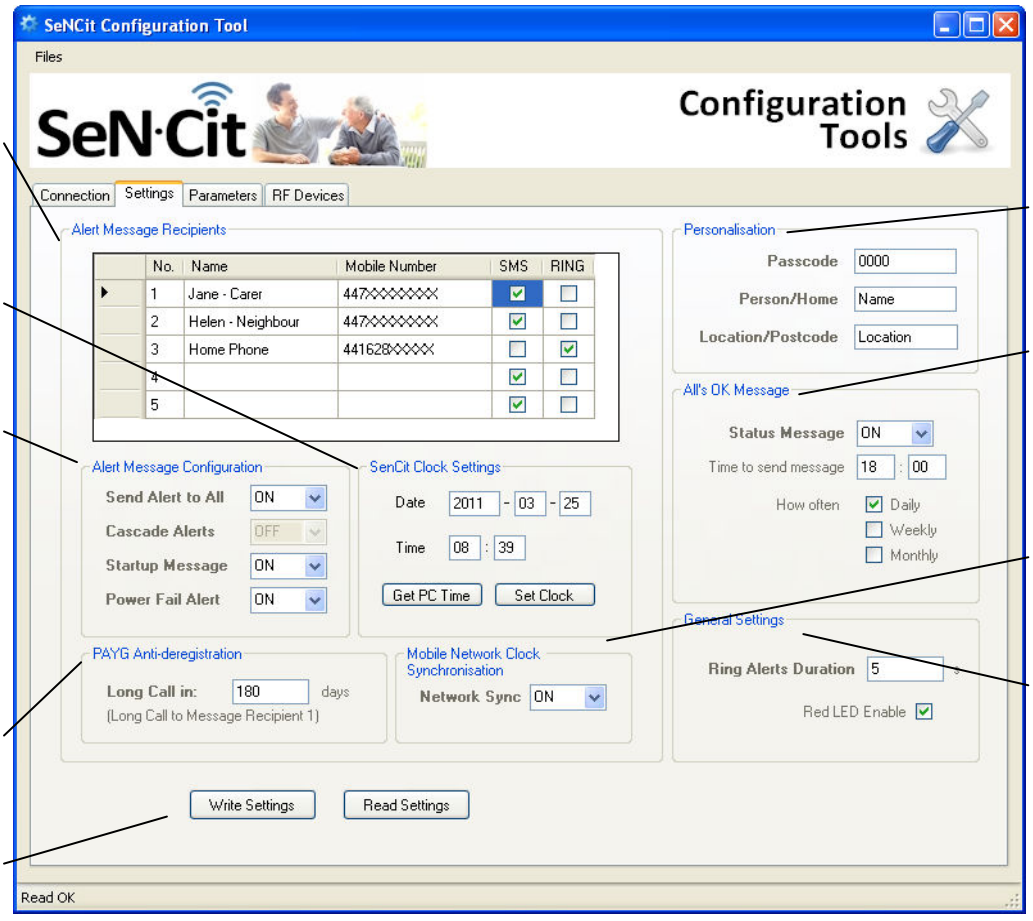
2.3 Connection Screen



Connect button

Click here to connect to your SeNCit unit - ensure the SeNCit is powered ON and connected via the supplied USB cable. You will see the software connecting in the status bar (5). When you have successfully connected you will be presented with the Settings page.

2.4 Settings Screen



2. Alert Message Recipients

3. SeNCit Internal Clock

4. Alert Control

5. Startup Message

6. Main power fail message

11. PAYG SIM Anti-deregister

12. Write/Read Settings

1. SeNCit Personalisation

7. Regular "All OK" Message Settings

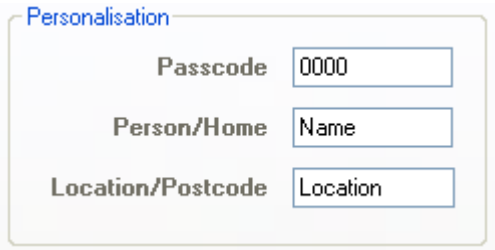
8. Clock (Network) Sync

9. Ring Alerts Duration

10. Red LED Control

The SeNCit Configuration Tool allows the installer or user to adjust all the parameters within the unit to create a more effective monitoring system for each individual's differing circumstances.

1. SeNCit Personalisation



Passcode:

The SeNCit passcode should be changed to a four digit security code of your choice. In this example 0000 has been changed to 1234. Remember your passcode as this will allow you to send messages to the SeNCit to check the status of the device as well as make configuration changes using the Remote SMS Config settings.

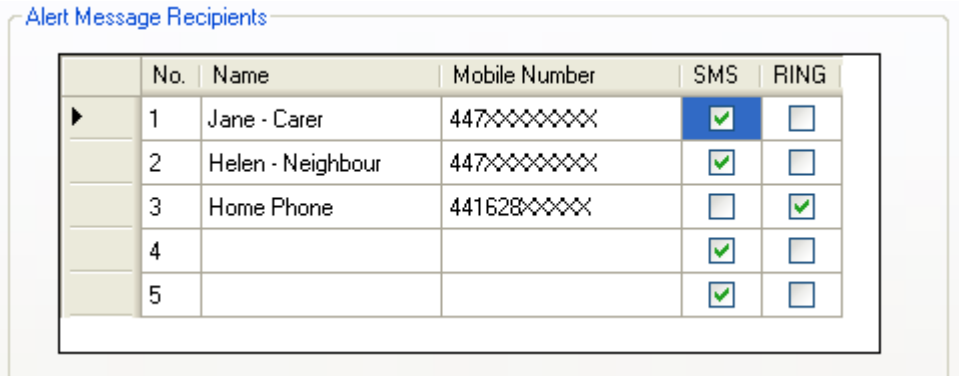
Person/Home:

This is where the name of the person being cared for is stored - You can put up to 24 characters in this field e.g.: Mum, Mrs Jones, Brenda etc...

Location/Postcode:

This field is for entering the location of the SeNCit unit such as the postcode - You have 24 characters so can replace the postcode with the house name or even the home telephone number of the person being monitored.

2. Alert Message Recipients



Message Recipients (i.e. carers or responders)

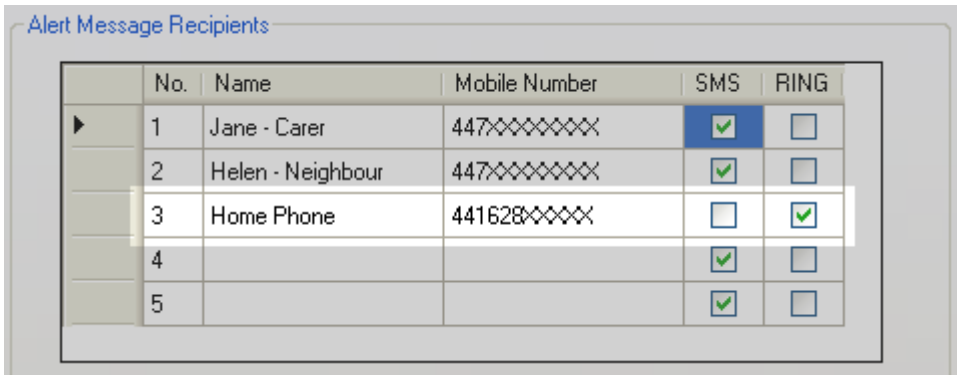
Enter the name and mobile number of the people who will receive the SMS or "Ring" alerts. You can add a maximum of five recipients and can select whether they receive just SMS messages, just "ring" alerts* or both. Note: Recipient's numbers should always be entered with the international prefix.

i.e. UK 078912345678 should be 4478912345678 (Note the leading 0 (Zero) is omitted)
UK 01628638557 should be 441628638557

*Note - "Ring Alerts"

The SeNCit unit can be set to make a call to a number for a few seconds as an instant notification that an alert has triggered. A "ring" alert typically calls the recipients phone within 10 seconds. This enables the recipient to react quickly. This is especially useful for live-in carers to alert when a door has opened and there is risk of the person they are caring for wandering away from the home.

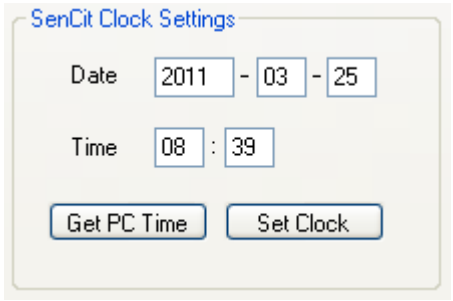
Usage example:



In this example Peter will receive SMS alerts for all conditions than have been enabled in the Parameters section (tab). The home phone will just "ring" for a few seconds to alert the home owner that an alert has triggered. This is useful for Night Wandering or Door Wandering where the carer lives with their charge.

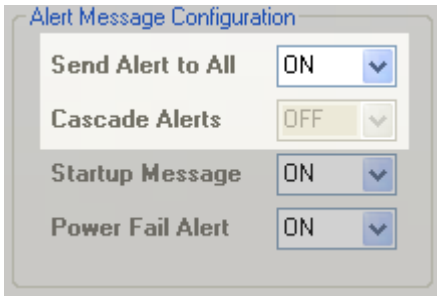
**** Important:** You must enter the ring alert recipients number with the international prefix.

3. Internal Clock



You can set the internal clock of the SeNCit unit to match the time of your PC clock by clicking on the 'Get PC Time' and then by clicking Set Clock, this will write this time to the SeNCit Unit. Please check your PC is set at the correct time first.

4. Alert Control



SMS Alert Control allows you to select how you would like the text messages sent:

Send Alerts to all

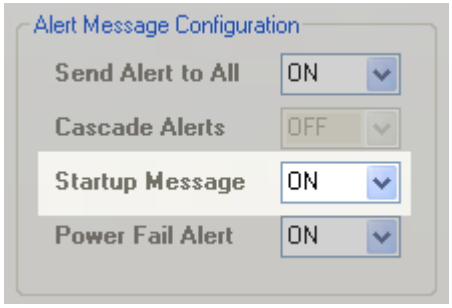
All recipients that have checked the SMS alert box will receive the alert SMS messages.

Cascade Alerts

The alert SMS messages will be sent to the recipients in turn from recipients 1 through to 5 until SeNCit receives an automatic SMS delivery report back from the recipient's phone to confirm the message has arrived. If no delivery receipt is received within a short time the SeNCit will try recipient number 2 and so on until the message is delivered. When a delivery receipt is received by SeNCit, no further messages will be sent to remaining recipients. Lack of delivery receipts can mean that the recipient's phone is switched off or not on the mobile network.

NB. Not all mobile networks support the 'cascade feature', in these circumstances; SeNCit will default to sending alerts to all users concurrently.

5. Startup Message



SeNCit will send recipients a SMS Message to inform them that the device is active and on the network.

The message format is a follows:

Alarm system SeNCit successfully started. MD V6.01.05
-Clock is 14:38, 31.1.2011

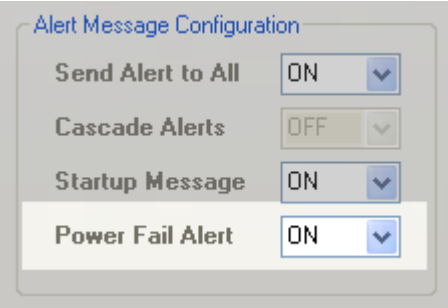
Dependent on the SIM card and network the time and date is automatically set within the **SeNCit** unit - Please check this is correct.

If the network does not set the time automatically then you will receive the following message:

Alarm system SeNCit successfully started. MD V6.01.05
-Clock is NOT Set-Please set.

You will have to set the time and date. This can be done using the configuration tool (see section 2) or via a Remote SMS Config Command.

6. Power Fail Alert



The SeNCit until has a backup battery which is recharged when the unit is connected to its power supply. If the power supply is cut or has been unplugged, the SeNCit will send the following message to the recipients:

Mrs Smith SL6 1ED: SeNCit Main Power Cut Alert - Please Check

Note: The SeNCit unit delays sending the power fail alert until the main power has been disconnected for 5 mins. This is to allow for brief power cuts or power dips.

When the main power is restored the SeNCit will send the following message:

Mrs Smith SL6 1ED: SeNCit Main Power is restored.

This will mean system is up and running again.

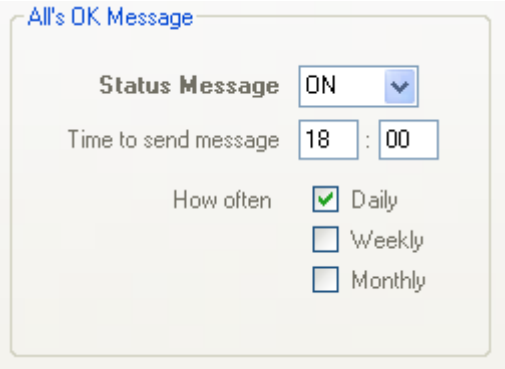
If the main power remains disconnected for a period of time SeNCit will send the following alert messages:

Mrs Smith SL6 1ED: SeNCit Battery Low - Please reconnect to main power.

Mrs Smith SL6 1SD: SeNCit Battery too low - SeNCit will switch off - Please check time and date when restored.

We would recommend you do not disable this feature as you will not know if the until has been unplugged or the mains supply if off.

7. Regular "All's OK" Message



The SeNCit unit will send a status text message to all recipients at regular intervals to confirm the SeNCit is active and the status of any alarms:

You can specify the time that the message will be sent and whether it is sent each day (default), weekly (at set time each Sunday) or Monthly (at set time on the 28th day on each month).

Message example:

Mr Smith SL6 3EU: SeNCit Active:Movement OK,Door1 OK,Door2 OK,Temp OK,Power OK,Signal OK,Clock is:18:00, 4.2.2011

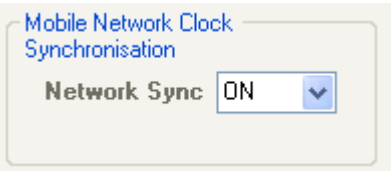
The status message gives you a snapshot of all the parameters the **SeNCit** unit is monitoring. If any alarms have been triggered and have not been reset before the status message is sent then they will appear as ALARM - You should then call or visit to check all is ok.

Mr Smith SL6 3EU: SeNCit Active:Movement ALARM,Temp OK,Power OK,Signal LOW,Clock is:18:00, 5.2.2011

The status message is in addition to the alert messages that will be sent to warn of condition changes as they happen. The 'ALLs OK' message is a further way of knowing there have been no missed alarms.

Note: You should check the time/date setting showing in the status message are correct.

8. Clock Synchronisation



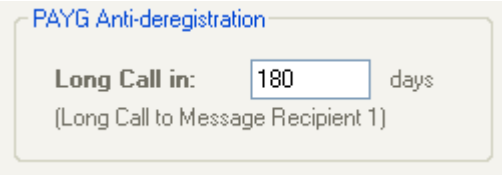
Most mobile networks broadcast the time and date and SeNCit can use this information to set its internal clock.

UK Networks:

Orange	Clock set automatically
Vodafone	Clock set automatically
T-Mobile	Please check clock
O2	Clock NOT set - Please set manually

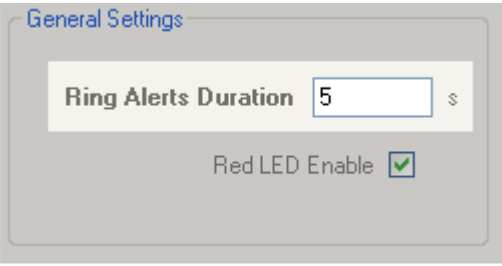
SeNCit will re-synchronise its internal clock every 28 days to ensure the correct time.

8. PAYG SIM Anti-Deregister



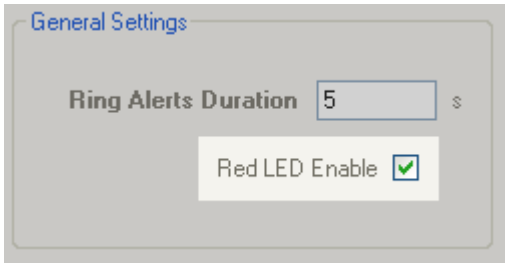
Some pre-pay or pay as you go SIM cards may be de-registered by the network if no calls or text messages are sent after a certain time. This is usually 180 days but varies from network to network. We would always recommend a low cost monthly contract SIM but where a pay-as-you-go SIM card is used the SeNCit will make a long call to the first message recipient - When this call is answered or picked up by the voice mail service this will count as a chargeable call and should prevent de-registration.

9. "Ring" Alert Duration



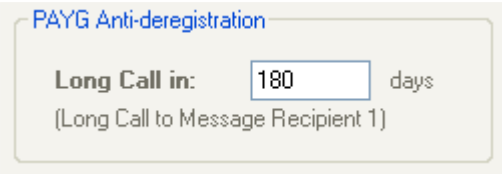
You can adjust the length of time of the free ring alert by entering a value here - This is a global setting for all ring alerts. If you set this too high your voice mail or ansaphone may pick up the call. This will then be a chargeable call.

10. LED Indication



The red light that is visible behind the sensor lens can be switched off by un-checking this box. It is useful during installation for checking positioning of sensor lens but thereafter you may decide to disable if it is a distraction or fascination to the individual being monitored and would be better unseen.

11. PAYG SIM Anti-Deregister



Some pre-pay or pay as you go SIM cards may be de-registered by the network if no calls or text messages are sent after a certain time. This is usually 180 days but varies from network to network. We would always recommend a low cost monthly contract SIM but where a pay-as-you-go SIM card is used the SeNCit will make a long call to the first message recipient - When this call is answered or picked up by the voice mail service this will count as a chargeable call and should prevent de-registration.

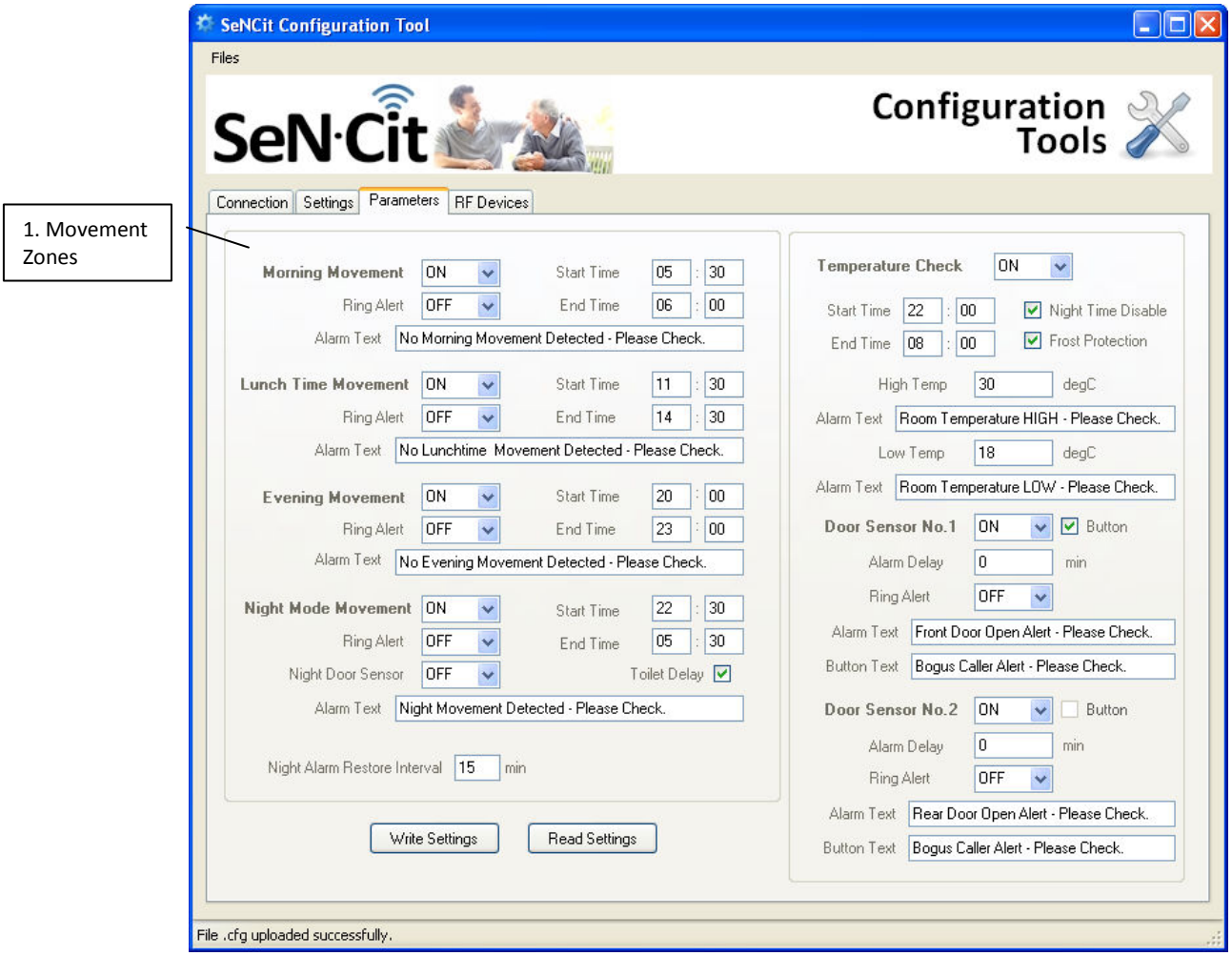
12. Write/Read Settings button

When you have made any changes to the configuration please 'Write Settings' to send these configuration changes to the unit. You will then see confirmation message 'Write OK' in the Status Bar (bottom left of screen).

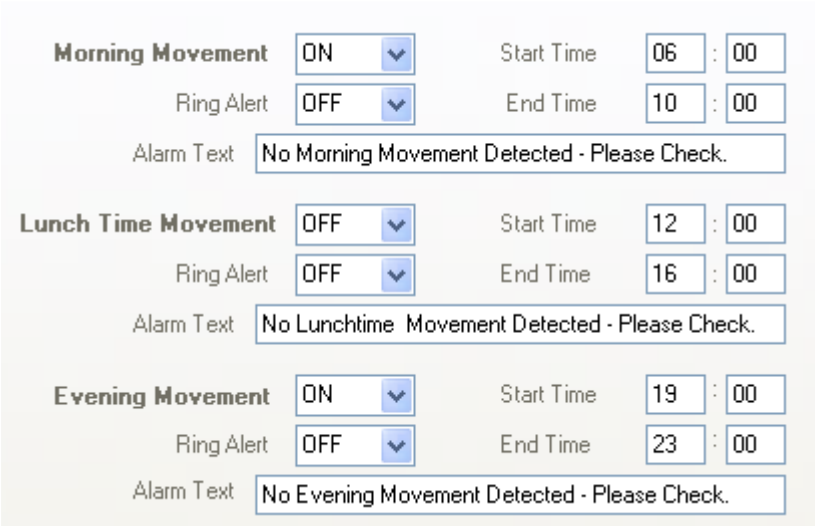
Note: If you click READ SETTINGS any changes you have not written to the connected SeNCit will be overwritten from the configuration already in the SeNCit unit.

2.5 SeNCit Parameters

We recommend you download the parameter questionnaire from our website so that you can interview individual being monitored or their carer/relatives in order to get most effective information for these settings.


1. Movement Zones
SeNCit Configuration Tool
Files
SeN·Cit
Configuration Tools
Connection
Settings
Parameters
RF Devices
Morning Movement ON Start Time 05 : 30
Ring Alert OFF End Time 06 : 00
Alarm Text No Morning Movement Detected - Please Check.
Lunch Time Movement ON Start Time 11 : 30
Ring Alert OFF End Time 14 : 30
Alarm Text No Lunchtime Movement Detected - Please Check.
Evening Movement ON Start Time 20 : 00
Ring Alert OFF End Time 23 : 00
Alarm Text No Evening Movement Detected - Please Check.
Night Mode Movement ON Start Time 22 : 30
Ring Alert OFF End Time 05 : 30
Night Door Sensor OFF Toilet Delay
Alarm Text Night Movement Detected - Please Check.
Night Alarm Restore Interval 15 min
Write Settings
Read Settings
Temperature Check ON
Start Time 22 : 00 Night Time Disable
End Time 08 : 00 Frost Protection
High Temp 30 degC
Alarm Text Room Temperature HIGH - Please Check.
Low Temp 18 degC
Alarm Text Room Temperature LOW - Please Check.
Door Sensor No.1 ON Button
Alarm Delay 0 min
Ring Alert OFF
Alarm Text Front Door Open Alert - Please Check.
Button Text Bogus Caller Alert - Please Check.
Door Sensor No.2 ON Button
Alarm Delay 0 min
Ring Alert OFF
Alarm Text Rear Door Open Alert - Please Check.
Button Text Bogus Caller Alert - Please Check.
File .cfg uploaded successfully.

1. Movement Zones


Morning Movement ON Start Time 06 : 00
Ring Alert OFF End Time 10 : 00
Alarm Text No Morning Movement Detected - Please Check.
Lunch Time Movement OFF Start Time 12 : 00
Ring Alert OFF End Time 16 : 00
Alarm Text No Lunchtime Movement Detected - Please Check.
Evening Movement ON Start Time 19 : 00
Ring Alert OFF End Time 23 : 00
Alarm Text No Evening Movement Detected - Please Check.

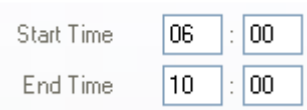
SeNCit has three daily movement zones which can be adjusted to suit the normal daily routines of the person being monitored.

Activating Zones:

Each Zone (Morning, Lunchtime & Evening) can be enabled using the ON/OFF drop down box:

Adjusting Zone Times:

Each zone can be adjusted to suit the times of the person being monitored:



e.g.: If Mrs Jones get up and goes to the bathroom between 7am and 9am then you should set the Morning Movement Zone from 06:00 to 10:00. ***NB Time zones should not overlap.***

Alarm Text:

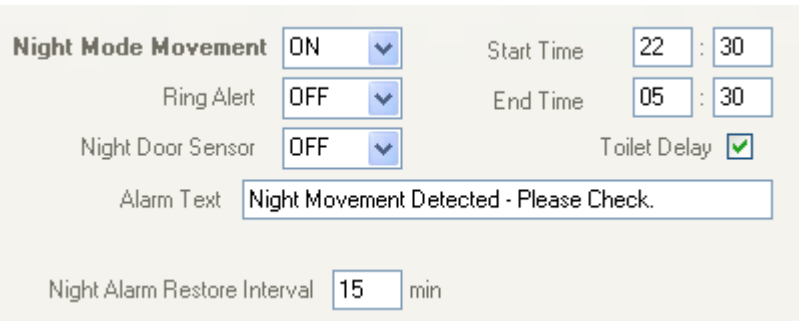
You can customize the alert text that will be sent by SMS text message here.
The message should describe the event and will be sent to all selected recipients after the end time has expired and no movement has been detected during this period.

Ring Alert:

A Ring Alert will precede the SMS text Alert with a brief call to the recipients' phone. This can be useful to draw attention to critical alerts. The recipient must also have checked the "Ring" box in the message recipient list within the settings tab. The duration of the ring alert is also set in call duration on the settings tab page. See Settings Section Note 9.

Tip: The message recipients should assign within their mobile phones the SeNCit mobile number and a pertinent name and, if your phone support s it, a distinctive ring tone. When the ring alert is triggered you will then be able to distinguish this call immediately by the name on the display as an alert from SeNCit. The alert SMS text will also be sent (unless you have unchecked the SMS box in the message recipient list) giving you more details of the type of alert.

2. Night Movement



It can be useful to be alerted during the night if the person you are caring for has got up and may be at risk. This is especially important if the carer lives with their charge. Night Movement mode will activate if it detects movement during the period defined.

Night Mode Movement:

ON/OFF – Enable/Disable or switch off this alert feature.

Ring Alert: See Ring Alert section in Movement Zones.

Night Door Sensor: (SeNCit+)

You can also enable the wireless door sensor to be used during night time movement - This works independently of the normal door sensor alerts and can be used to monitor if the person has open the main door at night. The standard door sensor message is sent.

Toilet Delay:

During the night you would expect visits to the toilet. To prevent the night movement alarm being triggered during these visits a 10 minute delay is provided. SeNCit will check that two movement detections are made passed the sensor during a 10 minute period and, only is a second movement has not been detected within 10 minutes, is the night movement alarm message sent.
To enable/disable this feature please check/uncheck the toilet delay box.

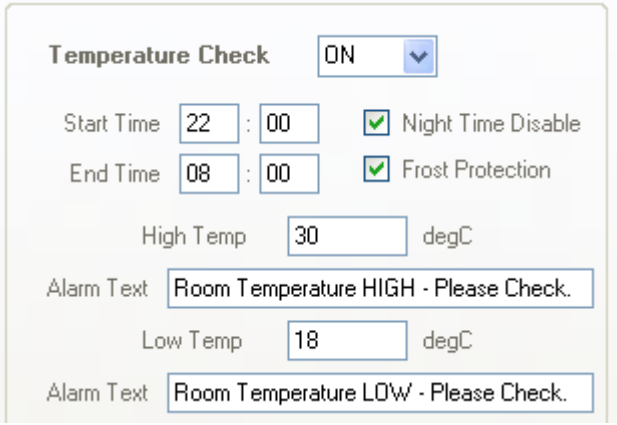
Alarm Text:

You can customize the alert text that will be sent by SMS text message here.
The message should describe the event and will be sent to all selected recipients after the end time has expired and no movement has been detected during this period.

Night Alarm Restore Interval:

This is the reset period before the night wander alert is reset.
This delay enables the carer to attend to their charge without repeatedly triggering the alarm.

4. Temperature Alert



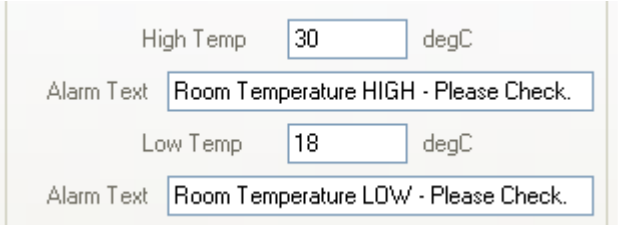
Tip:- Age UK website recommends comfortable temperature for rooms used by the elderly during the day is around 21°C (70°F).

SeNCit can monitor the ambient room temperature around the device. If the temperature rises above or falls below the adjustable set points the customizable SMS text message is sent.

Temperature Check ON/OFF

Enable or disable temperature monitoring alerts

Temperature alert level and messages:



Both HIGH & LOW temperature settings can be adjusted.
The alert SMS text message can be customised for both settings.

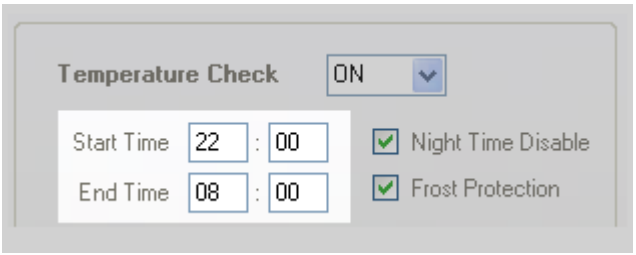
Note:

Temperature Alerts delay - SeNCit monitors the temperature and will only send the alert if the temperature remains below the LOW set point for one hour. This is to prevent false triggering.

Night Time Mode:

During the night you can disable the temperature alerts as most heating systems are switched off at night. This will prevent temperature alert messages being sent during this period.

Enter the start and end time for the period you wish to have the temperature alerts inactive.

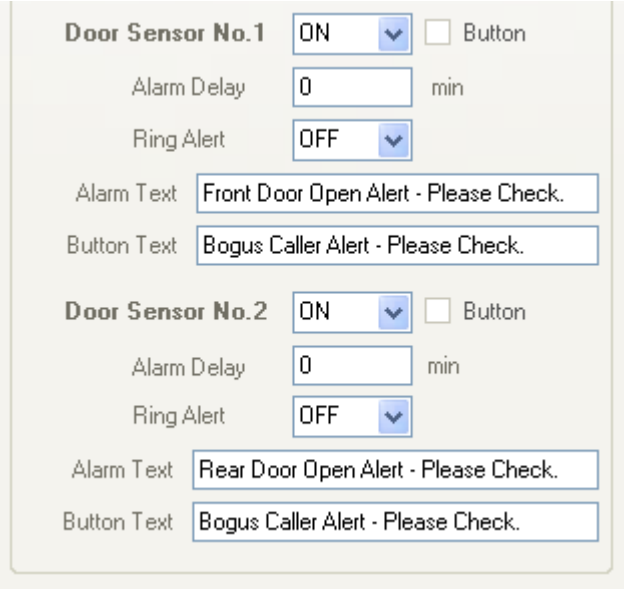


Frost Protection: (used only when SeNCit Security Mode is activated):

To prevent damage to water pipes SeNCit will send an alert SMS message to all message recipients that have selected to receive SMS alerts when the room temperature is at 3degC or less.

4. Door/Bogus Caller Button Sensors

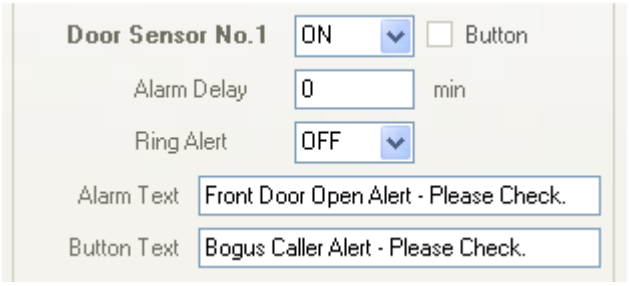
(Only for use on SeNCit+ models with wireless peripherals)



Up to two wireless door sensors can be connected to each SeNCit+ units. Wireless door sensors must be 'paired' to the main SeNCit+ unit as described in section 2.6

SeNCit+ can monitor local wireless sensors such as door sensors and pendants.
The door sensors can be positioned up to 30 meters from the main SeNCit+ unit and will trigger an alert message when a monitored external door is opened. This is used to warn of wandering.

Door Sensors:



Door Sensor enable ON/OFF:

Each door sensor can be switched on/off by selecting/deselecting here.

Button checkbox:

Each door sensor has a button which can be configured to send an alert as shown in the "Button Text" field below. As the sensor is attached to a door this button can be used to alert to warn of bogus callers or as a panic alert button.

Please select this in the Button checkbox if you wish to use this feature.

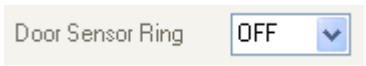
Button Text:

Add your chosen alert message here.

Alarm Delay:

A delay can be added to this alert so the 'door open' alert text message will not be sent until the time delay has elapsed. This feature is used when you wish to know if a door has been opened but not shut again. If the door is shut before the time period has elapsed the message is not sent. This feature is useful for individuals who forget to close their external doors properly!

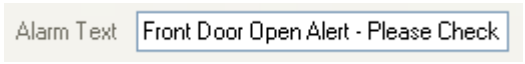
Door Sensor Ring:



In addition to the SMS text message alert the door sensor can trigger a "ring" alert. This will immediately ring any recipient who has selected to receive "ring" alerts in the message recipient list.

Note: This feature is to enable carers whose charges are prone to wandering to react very quickly before the person wandering has gone too far. A "ring" alert typically alerts recipient 1 within 10 seconds and the following alert SMS text message gives the carer more details.

Alarm Text:

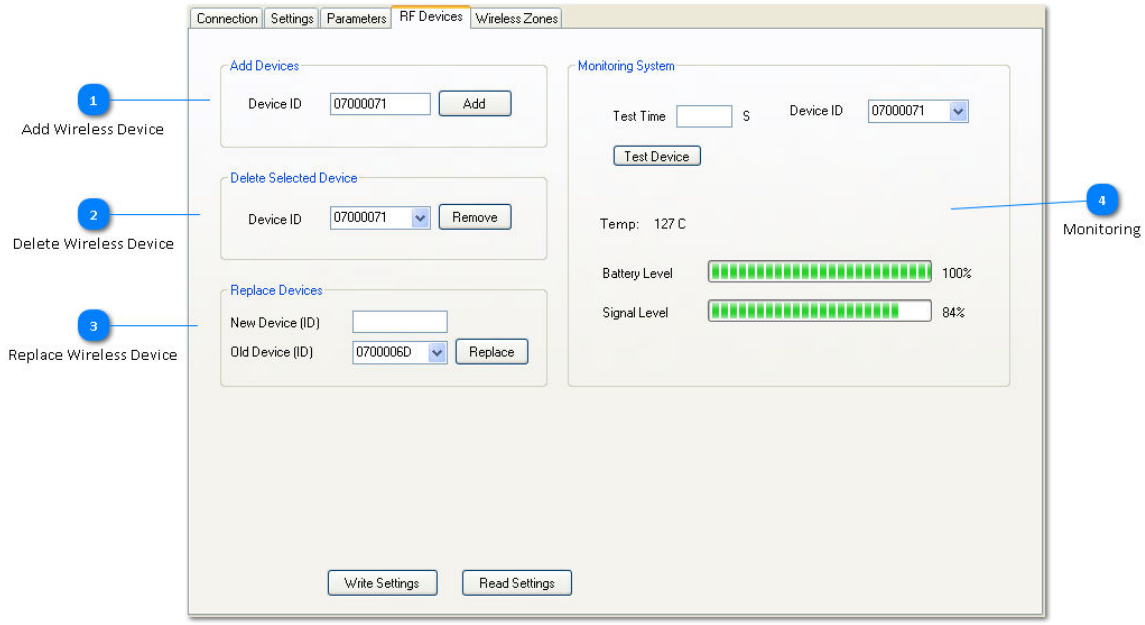


Add your chosen alert message here.

Write/Read Settings button – see 10

When you have made all changes to the parameters page, please WRITE these changes to the unit.

2.6 SeNCit RF Wireless Devices *(for use with SeNCit+ units)*



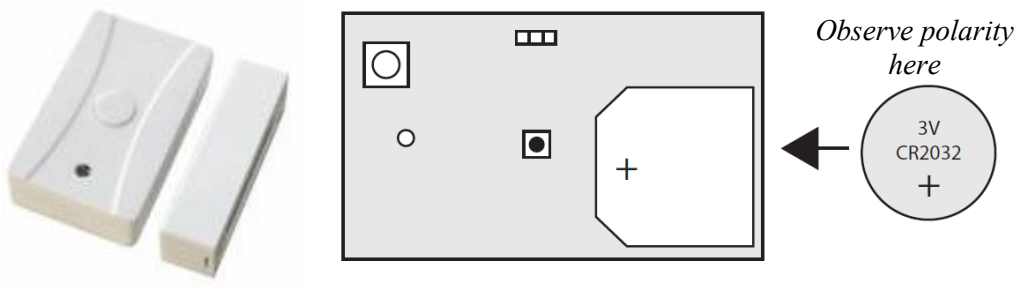
SeNCit+ units can link to local wireless sensor to expand its features. The main wireless peripherals are door sensors which will alert back via the SeNCit+ unit when a door has opened and there is risk of wandering and also a pushbutton pendant if required.

These wireless peripherals are battery powered and the battery must be inserted into the product prior to setup.

Installing Door Sensor:

The wireless door sensor (Part No: SENCIT-AD) comes in two parts – the main sensor block and a magnet block – You should install the battery and note the unique ID code for the sensor (shown inside the door sensor) prior to installing. The ID code will be used to connect/pair the sensor to the main SeNCit unit using the configuration software.

Note ID of your door sensor here:- ……..

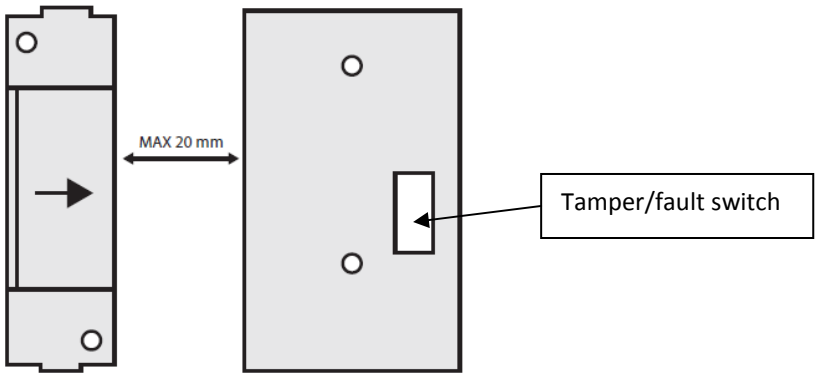


Prise top of case off with thumbnail or small screwdriver. You can now slide the CR2032 button battery into the battery slot. Please ensure that the +ve (positive) side of the battery is at the top. You may have to remove the circuit board from the housing to help give access to the battery slot. They battery can be removed by using the blade of a screwdriver to push the battery out of the holder.

Snap the plastic cover back in place ensuring the small LED light is aligned with the clear lens on the cover. The small LED will flash to confirm the sensor is powered. See video demo on website if still unsure.

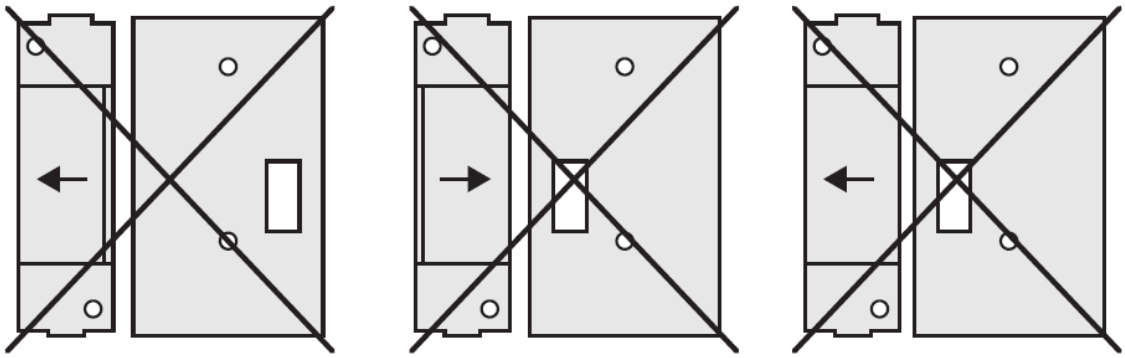
The sensor should be screwed to the door frame as below:

Fig 1



Note the mounting plates/covers can be removed from the sensor and magnet to enable fitting and an arrow is shown on the magnet part (cover removed) to help with fixing.

Please ensure the correct orientation as shown in Fig 1. Picture overleaf show how not to fit the door switch!



The rear tamper switch should be positioned against the door frame so it is in the closed position.

The sensor LED will flash briefly when the door is opened or closed and periodically flash to confirm operation.

If you are using the bogus call button in the middle of the door sensor then ensure the sensor is placed in a position than it can be activated – i.e. at body height.

Note: Wireless sensors can be mounted up to 30 meters from the main SeNCit unit.
The signal strength and battery level can be monitored in the configuration tool software.

Configuring your Wireless Device within the software – see 1

Each wireless peripheral (Door sensor, pendant etc...) has a unique 8 character code which distinguishes it from other wireless devices. Each peripheral needs to be connected (paired) to the SeNCit+ unit. Add the ID number (you made a note of overleaf) in Device ID box as shown above and click on Add.

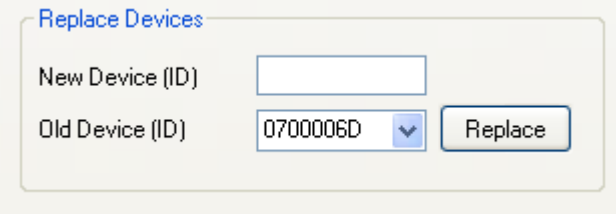
Once the wireless device (door sensor) has battery inserted, the LED will flash periodically every so often. SeNCit+ will then connect to the sensor and it is now defined as door/button sensor 1 and can be configured in the SeNCit Parameter tab as described earlier in this guide.

You can repeat this step for a second door/button sensor.

Delete Wireless Device – see 2

If you wish to disconnect a wireless sensor then select the appropriate code and click ‘Remove’

Replace Wireless Device – see 3



If you wish to replace a device with a new sensor then you can enter the new device code and the old device code and click ‘Replace’

Monitoring - see 4

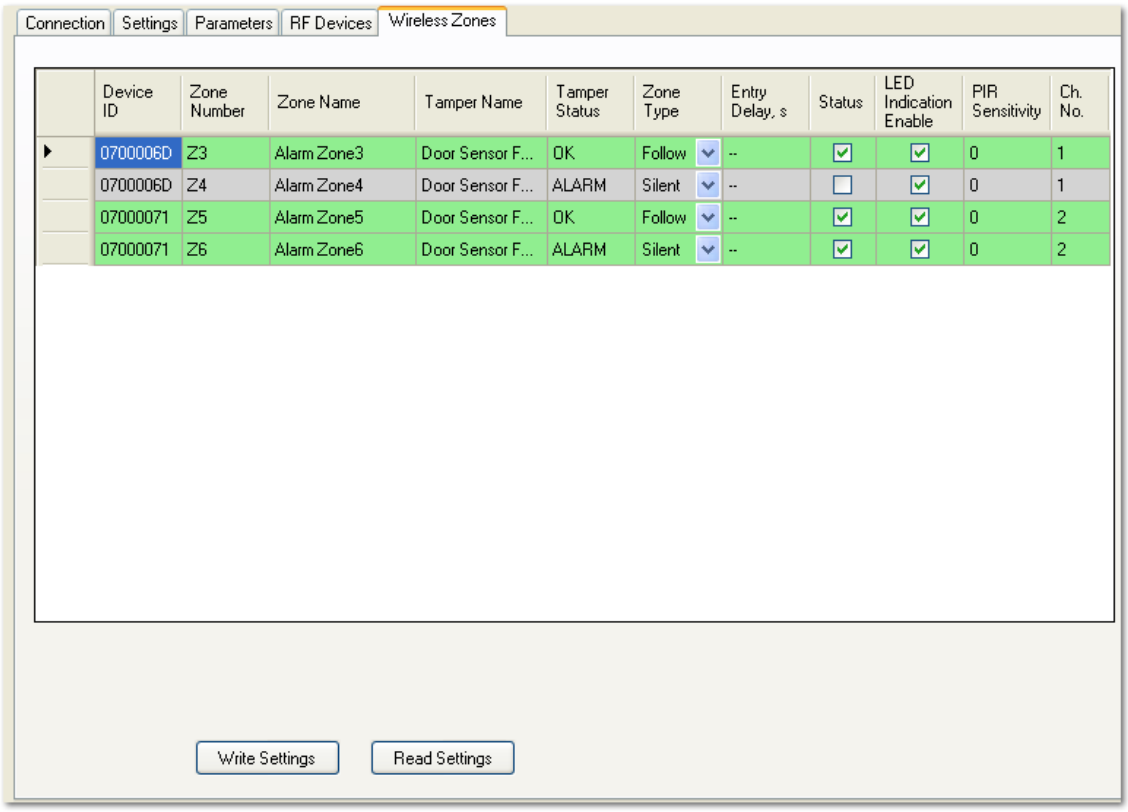
You can monitor the signal quality and battery level of connected wireless devices. This can be useful when installing the system.

Note: Please remove the battery from the wireless sensors when they are not being used or are not “paired” with a SeNCit+ main unit. The battery will discharge quickly if it cannot detect a SeNCit+ host units as it will be constantly trying to connect.

The SeNCit+ unit will send a SMS text alert “Door Sensor Fault” if the door sensor cannot be detected, if the internal battery needs replacing or if the sensor has been opened or removed from the door frame. The Door sensor has a lever at the back which remains depressed whilst fitted on the door frame and when this lever is released i.e. once removed from the door frame, it will generate an alert.

As such, be aware that after set-up, if door sensor is not already mounted on the frame, you will receive this initial message telling you there is a Door fault which you can ignore until Sensor installed.

SeNCit RF Wireless Devices (Experienced Users only)



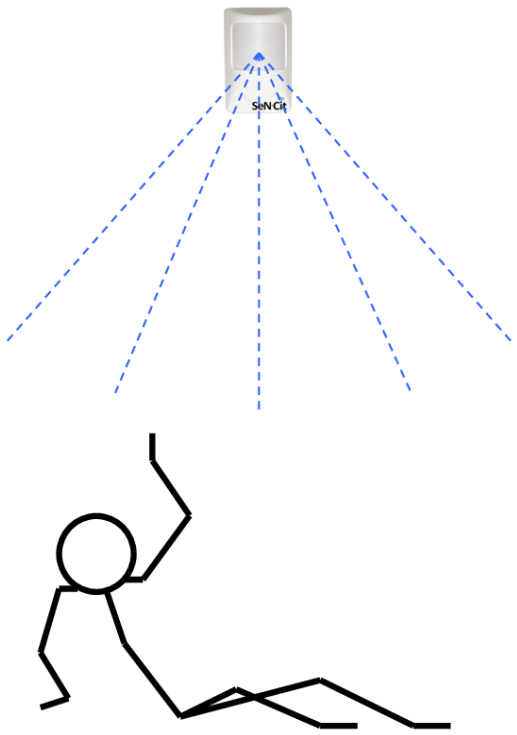
For experienced installers. We would not recommend making any changes within the Wireless Zones tab but you can monitor remote wireless devices from this tab.

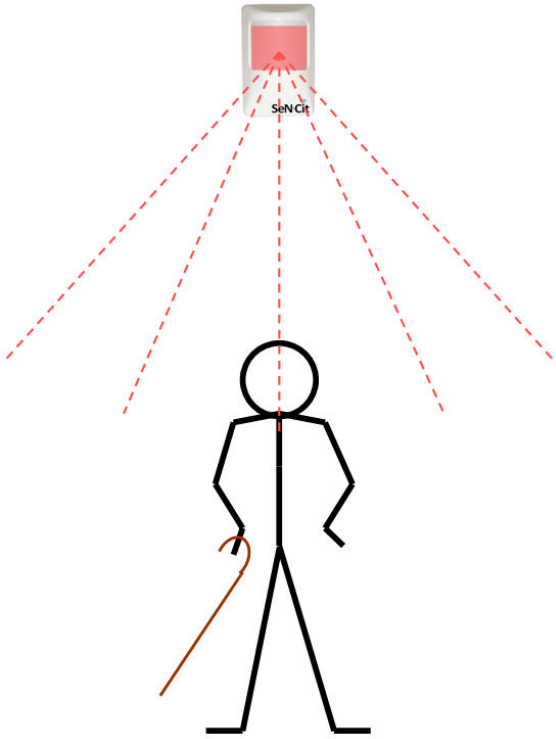
2.7 Mounting the SeNCit

Unplug programming lead and disconnect power lead.

Mount the SeNCit unit is a position where regular movement will take place – typically the landing or the hallway. Do not position it in a bedroom, kitchen or living room as the sensor is looking for movement between rooms and not just in one room. NOTE: The SeNCit is monitoring or looking for 'no' movement.

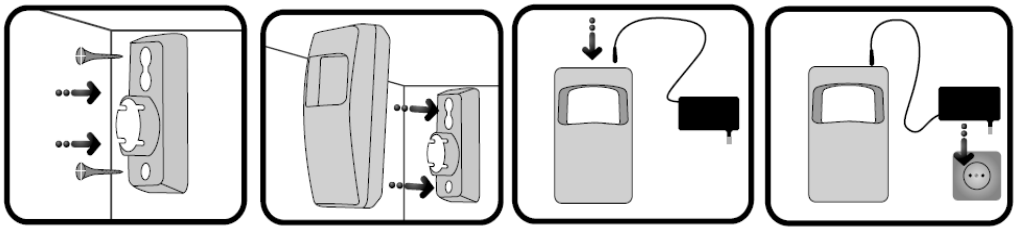
Position the SeNCit unit high up on a wall and not facing any windows or door or variable heat sources such as radiators. The angle of detection is 90˚ (a right angle) in all directions. The red light will assist you during the installation process because when this is lit, it is detecting. As such, you should angle the sensor so it only detects a person whilst walking past the sensor but would not detect the individual if they had fallen in front of the sensor and was perhaps on the floor in a sitting or crawling position.





Secure the fixing bracket to the wall using screws provided. Plug the power connector into the top of the SeNCit and the transformer into a nearby socket – make sure the cable is secured to the wall or channelled around door frames using retaining clips (not included) to prevent a trip hazard.

The SeNCit main unit is now active.



Once power is re-established to the unit and SeNCit has connected to the mobile network, it will send a text message to Message Recipient 1 as follows:

'Alarm System SeNCit successfully started'

2.8 Testing the SeNCit

Once you have installed the SeNCit unit you can test it by requesting a STATUS messages by sending the following text message to the SeNCit SIM card number:

PASSCODE INFO
(note the SPACE between PASSCODE & INFO)
PASSCODE is the 4 digit number that you set using the configuration software.

Example: **1234 INFO**

SeNCit will reply with one of the following SMS messages i.e.:

Mrs Jones SL6 3EU: SeNCit Active:Movement OK,Door1 OK,Door2 OK,Temp OK,Power OK,Signal OK,Clock is:09:59, 11.2.2011

or

Mrs Jones SL6 3EU: SeNCit Active:Movement OK,Door1 OK,Door2 OK,Temp OK,Power OK,Signal OK,-Clock is NOT Set-Please set.

If you receive the second message you should set the clock either by using the Configuration software or by sending the following message: **PASSCODE YYYY.MM.DD HH:mm**
(note the SPACE between PASSCODE & DATE and the SPACE between the DATE & TIME) Where:

CODE	Description	Example
YYYY	Current Year	2011
MM	Current Month 01-12	02 *(February)*
DD	Current Date 01-31	11
HH	Current Time Hours	18 *(6pm)*
mm	Current Time Minutes	50

Example: **1234 2011.02.12 18:50.** SeNCit will reply with a message to confirm:

Date and Time are set 2011.02.11 18:50

Important:- You should inform all message recipients that the unit is active and give them details of the alerts they may receive and the SIM card number that will send the messages – They can then store this number against a name within their mobile/home phone i.e.: "SeNCit – Mrs Jones". See following page for list of SeNCit Care Alert Messages.

You should also have a response plan of how you are going to respond to alerts, who are authorised key holders etc...

2.9 Typical Alert Messages:

(These can be customised using the Configuration software)

SeNCit Care Alert Messages		
Alert SMS Message	**Description**	**Action Recommended**
`Mrs Jones SL6 5BB: No Morning Movement Detected - Please Check.`	No movement has been detected by the SeNCit during the morning time period	Check that all is OK
`Mrs Jones SL6 5BB: No Lunchtime Movement Detected - Please Check.`	No movement has been detected by the SeNCit during the lunchtime period	Check that all is OK
`Mrs Jones SL6 5BB: No Evening Movement Detected - Please Check.`	No movement has been detected by the SeNCit during the evening time period	Check that all is OK
`Mrs Jones SL6 5BB: Room Temperature LOW - Please Check.`	Ambient temperature around SeNCit has dropped below the set value	Check heating is working and adequate.
`Mrs Jones SL6 5BB: Room Temperature HIGH - Please Check.`	Ambient temperature around SeNCit has risen above the set value	Check heating system is correct or cooling is correct.
`Mrs Jones SL6 5BB: SeNCit Main Power Cut Alert - Please Check`	The main power has been disconnected from the SeNCit	Check if there is a power cut or the unit has been unplugged or switched off
`Mrs Jones SL6 5BB: SeNCit Battery Low - Please reconnect to main power.`	The main power has not been restored and the SeNCit's internal battery is running low	Restore main power as soon as possible
`Mrs Jones SL6 5BB: SeNCit Main Power is Restored.`	The main power is restored BEFORE the internal battery has discharged	SeNCit is active.
`Mrs Jones SL6 5BB: SeNCit Battery too low - SeNCit will switch off - Please check time and date when restored.`	SeNCit's internal battery has discharged. Care monitoring will be OFF.	Restore main power as soon as possible and check/reset clock to ensure correct operation. All other setting is maintained in the unit.
`Mrs Jones SL6 5BB: Night Movement Detected - Please Check.`	SeNCit night mode is active and has detected movement	Check all is OK (primarily for live-in carers)

SeNCit Status Messages		
Alert SMS Message	**Description**	**Action**
`Alarm system SeNCit successfully started. MD V6.01.05 -Clock is NOT Set-Please set.`	Initial start-up message sent on power up or when power is restored after the internal battery has discharged.	Clock needs to be set
`Alarm system SeNCit successfully started. MD V6.01.05 -Clock is 14:38, 31.1.2011`	Initial start-up message sent on power up or when power is restored after the internal battery has discharged.	No action required
`Mrs Jones SL6 5BB: SeNCit Active:Movement OK,Door1 OK,Door2 OK,Temp OK,Power OK,Signal OK,Clock is:19:13, 26.1.2011`	Status message sent at set time to confirm system is active and time/date are correct. Also sent by request using XXXX INFO command	No action required
`Mrs Jones SL6 5BB: SeNCit Active:Movement ALARM,Temp OK,Power OK,Signal LOW,Clock is:09:11, 5.2.2011`	Status messages showing activated ALARM – No movement alarm was instigated during the last time period and has not reset	Check all is OK
SeNCit+ Care Messages		
Alert SMS Message	**Description**	**Action**
`Mrs Jones SL6 5BB: Front Door Open Alert - Please Check.`	Door Sensor 1 has triggered due to door opening	Check door for wandering
`Mrs Jones SL6 5BB: Back Door Open Alert - Please Check.`	Door Sensor 2 has triggered due to door opening	Check door for wandering
`Door Sensor Fault`	Door sensor has been removed from door or out of range or low battery	Check and refit, replace as required
`Mrs Jones SL6 5BB: Panic button Alert - Please Check.`	Button on the door sensor has been pressed	Check all is OK

3.0 Security Mode

SeNCit can be switched into security mode for times when the home is left unoccupied.

To enable security mode any of the message recipients can just call the SeNCit's mobile number from their authorised phones – i.e. the phones that receive the alert SMS messages. SeNCit will reject this call after a few rings* and set the security mode ON. You will receive a confirmation message as shown below:

* Note – If the mobile network's voicemail answers the call then just hang up the call as soon as you hear the voicemail message.

SeNCit security mode		
Alert SMS Message	**Description**	**Action**
`Mrs Jones SL6 5BB: SeNCit Security Mode is now active - Ring to disable.`	Security mode has been activated by calling	No action required
`System disarmed. Tamper: 3,4`	Security mode cannot be set due to SeNCit+ door sensor position of fault	Check door are closed and sensor are fixed to the door frame.
`SeNCit Security Mode - Alarm Triggered: Mrs Jones SL6 3EU`	SeNCit security has detected movement in the secure zone	Check or seek assistance
`Mrs Jones SL6 5BB: SeNCit Security Mode Deactivated - Now in Care Mode.`	Security mode has been de-activated by calling	No action required – SeNCit is now in Care mode.

During security mode if SeNCit detects any movement a warning SMS alert will be sent to all message recipients that have selected to receive SMS messages.

To disable security mode just call the SeNCit's mobile number a second time and again SeNCit will automatically reject the call after one ring and SeNCit will return to care monitoring mode. You will receive a confirmation message to confirm this action.

For more information and updates please visit our website as www.sen-cit.co.uk

Remote SMS Config

4. SeNCit Remote Configuration:

There are a number of settings that can be changed remotely just by sending one of the following SMS messages. These messages can only be sent from one of the alert message recipient's mobile phones and must be sent exactly as shown including any spaces.

If you receive a message "wrong syntax" please check your message and try again.

You should also make a note of any changes you make remotely.

1. **Adding/removing message recipients:**
   To add a message recipient send the following SMS message:

   XXXX NR2:44NNNNNNNNNN

   where:
   XXXX is the 4 digit passcode
   NR2 is the second recipient (you can have up to five recipients NR1, NR2, NR3, NR4 & NR5)
   44NNNNNNNNNN is the telephone number of the recipient

   e.g. To add a new message recipient into position 3 you would send the following SMS

   1234 NR3:447871234567

   When sent correctly SeNCit will send back a confirmation message.

2. **Time & Date Setting:** See section 2.8

3. **Status/All's OK message:** See section 2.8

4. **SeNCit ON/OFF**
   You can disable the SeNCit completely by sending the following SMS message:

   XXXX SENCIT:ON
   XXXX SENCIT:OFF

   e.g. 1234 SENCIT:OFF

   When sent correctly SeNCit will send back a confirmation message.

5. **Night Movement ON/OFF**
   You can disable Night Movement alerts by sending the following SMS message:
   SeNCit will use the night movement parameters already set in the unit/

   XXXX NIGHT:ON
   XXXX NIGHT:OFF

   e.g. 1234 NIGHT:OFF

   When sent correctly SeNCit will send back a confirmation message.